

20000420.ba v02_n872.bam.20000420

>From ???@??? Thu Apr 20 16:55:36 2000 -0500
Message-Id: <200004202150.e3KLoUV14198@sco.theporch.com>
Date: Thu, 20 Apr 2000 16:50:27 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 2872

BOATANCHORS Digest 2872

Topics covered in this issue include:

- 1) Hallicrafters, with af/rf output tube
by "Richard Brunner" <rbrunner@gis.net>
- 2) Re: Fwd: BOATANCHORS digest 2870
by Edward Zeranski <ezeran@concentric.net>
- 3) BC-659: I-210 Test Set
by David Stinson <arc5@ix.netcom.com>
- 4) Re: Fwd: Re: [armyradios] WTB: PP-1711/GRC-14 pwr supply +
by Edward Zeranski <ezeran@concentric.net>
- 5) ORIGINAL Heathkit Ham and Audio HIFI Manuals for
Sale.....
by Robert Ross <robross@odyssey.on.ca>
- 6) Praises to the SX-28
by James Hanlon <knjhanlon@uswest.net>
- 7) Praises to the SX-28
by James Hanlon <knjhanlon@uswest.net>
- 8) Hallicrafters S-38 with Transmitter
by "Richard Brunner" <rbrunner@gis.net>
- 9) Commercial tickets
by "David M. Upton" <david@wb1cmg.mv.com>
- 10) Elusive Lulus logged.
by Michael N HoN Hopkins <mnhopkins@juno.com>
- 11) Key on eBay
by Merz Donald S <merz.ds@mellon.com>
- 12) Re: Commercial tickets
by Richard Post <post@ouvaxa.cats.ohiou.edu>
- 13) EF Johnson 122-101 socket?
by "Benjamin D. Hall" <kd5byb@WT.NET>
- 14) Re: EF Johnson 122-101 socket?
by Gary Schafer <gschafer@mediaone.net>
- 15) Re: EF Johnson 122-101 socket?
by W0EOM@aol.com
- 16) Re: EF Johnson 122-101 socket?
by "Spencer Petri" <wa5jci@flash.net>
- 17) Re: Praises to the SX-28
by "russ dworakowski" <wb3fau@hotmail.com>

18) POWER TRANSFORMER QUESTIONS

by JOHN.SEHRING@ecunet.org

19) SX-28 LF hearing...

by "Roberta J. Barmore" <rbarmore@indy.net>

Message-ID: <004e01bfaa4f\$f45654a0\$201d29d8@tneltcds>

From: "Richard Brunner" <rbrunner@gis.net>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Hallicrafters, with af/rf output tube

Date: Wed, 19 Apr 2000 18:36:38 -0400

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hue wrote:

"Say, didn't hallicrafters have a No-vice
type rig, SR-18 maybe, basically an S-38
with the audio output tube also working as
a low power xtal controlled transmitter?"

From memory, and from Moore's book, that is the SR-75, made in 1951. Its
an S-38B with 10 Watt crystal controlled oscillator built in. At \$89.95 it
was not popular, and disappeared in about one year. It looks just like an
S-38B. If you find one they are quite rare, and worth far more than I would
pay to collectors. I have never seen the schematic, so don't know whether
the audio output tube doubles as crystal oscillator.

Richard Brunner, AA1P, rbrunner@gis.net

Message-Id: <3.0.1.32.20000419160716.009b2100@pop3.concentric.net>

Date: Wed, 19 Apr 2000 16:07:16 -0700

To: Old Tube Radios <boatanchors@theporch.com>

From: Edward Zeranski <ezeran@concentric.net>

Subject: Re: Fwd: BOATANCHORS digest 2870

Cc: Carruth <carruth@geo-thermal.com>,
"Prof. Arthur I. Larky" <ail0@lehigh.edu>,
"User Na4g Boatanchor Bob NA4G" <na4g@weedcon2.cropsci.ncsu.edu>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

>

>Bob Keys wrote such a program a long time ago (a copy of this message to
>him).

>Art: what do you need about the "low series LM's"? Do you mean info on the

>early models that had slightly different frequency coverages? I don't
>think I have one of those among the units I have, but do let me know if I
>can help you in this effort. I volunteer to be a beta tester as you make
>progress.

>

>LONG LIVE THE LM!!

Roy,

How have you been? Correct on BA Bob writting a program for LM calib.
which I think is in the BA archive along with his RAL info. I still have 'a
few' working LMs/BC-221s with the oldest being an LM from 1935. That one
has the original manual with cal book and as I remember got its pwr from an
on-board RX or the aircraft. The manual states "For Aircraft Use".

Message-ID: <38FE3E09.6886F53@ix.netcom.com>
Date: Wed, 19 Apr 2000 18:15:21 -0500
From: David Stinson <arc5@ix.netcom.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BC-659: I-210 Test Set
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Does anyone have information on how the I-210 test set
was used with the BC-659? I don't see anything
in my manuals.

TNX ES 73 DE Dave AB5S

Message-Id: <3.0.1.32.20000419164906.0097ecd0@pop3.concentric.net>
Date: Wed, 19 Apr 2000 16:49:06 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Edward Zeranski <ezeran@concentric.net>
Subject: Re: Fwd: Re: [armyradios] WTB: PP-1711/GRC-14 pwr supply +
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 06:32 PM 4/19/00 -0500, you wrote:

>

>>with the RX. However...look up or do a websearch for surplusstuff.com

>

>Ed --

>

>Took a look at www.surplusstuff.com and it looks like it is now
>a computer service place... :-(Plain old surplusstuff.com turns
>up as a bad address.

>
>Oh well.
>
>73
>
>Tom
>
>Damn! Well I stepped on my crank with that one....only one 's' not double
's'. Try

>
><http://surplustuff.com/> then hit Navy. TCS, RAL, MRC-55 all neat. Sure
hope he ain't dead because I sent him a check a week or two ago.
>
>

Message-Id: <3.0.32.20000419200036.0071c1dc@mail.odyssey.on.ca>
Date: Wed, 19 Apr 2000 20:01:38 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Robert Ross <robross@odyssey.on.ca>
Subject: ORIGINAL Heathkit Ham and Audio HIFI Manuals for
Sale.....
Cc: baswaplist@foothill.net, boatanchors@sco.theporch.com,
boatanchors@listserv.tempe.gov
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hello:

I have the Following ORIGINAL Heathkit Manuals for Sale. All Prices are
in USA Dollars..and Shipping is Extra. Please email me Direct at
robross@odyssey.on.ca to reserve any of these Manuals. They are #'d from
#1 to #14 for easy Reference.

Thanks ROB VA3SW

#1 Original Manual for the Heathkit FM-3A FM Tuner. Printed in USA 1956. 40
Page Manual with Photo of Unit inside front Cover.Covers Specs, Parts List,
Alignment, Building Instructions, Schematic Etc. VG+ Cond. and Clean. Has
Pencil and Pen Writing inside manual.

PRICE.....\$12.00 USA + Shipping

#2 Original Manual for the Heathkit FM-3A FM Tuner. Printed in USA 1956. 40
Page Manual with Photo of Unit inside front Cover. Covers Specs, Parts List,
Alignment, Building Instructions, Schematic Etc. VG+ Cond. and Clean. NO
Writing inside manual.

PRICE.....\$12.00 USA + Shipping

#3 Original Manual for the Daystrom/Heath Model DA-283 HIFI Amplifier.
Printed in USA 1961. 28 Page Manual with Brown Daystrom Cover! Has a Photo
of the Unit inside front Cover, and also covers Specs, Assembly, Several
Fold Out Pictorials, and Parts List. VG+ Condition, but is 3 Hole Punched.
No writing inside manual.

PRICE.....\$12.00 USA + Shipping

#4 Original Manual for the Heathkit Model AA-131 Audio Preamplifier.
Printed in USA 1961. Large sized Manual 32 pages with a Photo of the Unit
inside the front Cover. Covers Specs, Assembly, Fold out Pictorials, and
Parts List. VG- Condition but 3 Hole Punched. Cover has separated from 2
Staples that hold it on the Manual. No writing in Manual.

PRICE\$12.00 USA + Shipping

#5 Original Manual for the Heathkit Model AA-141A HIFI Stereo Preamplifier.
Large Sized manual 40 Pages Printed in USA 1962. Has a Photo of the Unit
inside front Cover. Covers Specs, Assembly, Parts List, Fold Out
Pictorials, and Trouble shooting. VG++ Condition and Clean, but is 3 Hole
Punched.

PRICE.....\$12.00 USA + Shipping

#6 Original Manual for the Heathkit Model AA-32 Stereo preamplifier.
Printed in USA 1963. Large sized Manual 36 Pages. Has a Photo of the manual
inside front cover. Has Original Bill of Sale for the amp inside as well!!
Covers Specs, Assembly, Schematic, Fold out Pictorials, and servicing info.
VG++ Condition and Clean. Has Pen Check marks inside manual.

PRICE.....\$12.00 USA + Shipping

#7 Original Manual for the Heathkit Model AA-13 Audio Amplifier. Large
sized Manual Printed in USA 1964, 28 Pages. Has a Photo of the Unit inside

front Cover. Also covers Specs, Pull Out Schematics and Pictorials, Parts list and Assembly. Also has original Bill of Sale for the Unit included. VG++ Condition with Pencil and Pen Checks inside the manual.

PRICE.....\$12.00 USA + Shipping

#####

#8 Original Manual for the Heathkit Model AA-18 Solid State Amplifier. Printed in USA 1968. Large sized manual with 22 Pages. Has a Photo of the Unit on inside of the Cover. Also covers Specs, Parts List, Assembly, Fold Out Schematic and Pictorials and Photos. Excellent Condition but has some Writing and Checkmarks inside the Manual.

PRICE.....\$12.00 USA + Shipping

#####

#9 Original Manual for the Heathkit WA-P2 HIFI Preamplifier. Printed in USA 1954. Very Early Heathkit HIFI Manual!! 36 Pages with 2 Large Foldouts and Photo of Unit inside front cover. Covers Assembly, Parts, Pictorial, Schematic etc. Condition is VG+ Real Clean. No writing and No Checkmarks. Hard to Find early Heathkit HiFi Manual!

PRICE\$12.00 USA + Shipping

#####

#10 Original Manual for the Heathkit WA-P2 HIFI Preamplifier. Printed in USA 1955. Very Early Heathkit HIFI Manual!! 36 Pages with 2 Large Foldouts and Photo of Unit inside front cover. Covers Assembly, Parts, Pictorial, Schematic etc. Condition is VG+ Real Clean. Pencil writing inside Manual. Hard to Find early Heathkit HiFi Manual!

PRICE\$12.00 USA + Shipping

#####

#11 Original Manual for the Heathkit WA-P2 HIFI Preamplifier. Printed in USA 1956. Very Early Heathkit HIFI Manual!! 36 Pages with 4 Large Foldouts and Photo of Unit inside front cover. Covers Assembly, Parts, Pictorial, Schematic etc. Condition is VG+ Real Clean. Pencil and Pen writing inside Manual. Hard to Find early Heathkit HiFi Manual!

PRICE\$12.00 USA + Shipping

#####

#12 Original manual for the Heathkit SS-2 Speaker System. Printed in the USA 1959. 16 Page Manual with Photos of the Speakers inside front Cover. Covers Assembly, Specs, Parts List,etc. Has 3 Large Fold Out sections. Condition is VG+ and Clean. Has a Name written on front cover. Also has writing inside the manual. Hard to find Manual for off the beaten track

Heathkit item.

PRICE.....\$7.00 USA + Shipping

#####

#13 Original Manual for the Heathkit AM2 Reflected Power Meter. Printed in
USA 1958. 16 Page Manual with Photo of Unit inside front Cover. Covers
Assembly, Parts, Schematic, Pictorials etc. Condition is VG+ Real Clean.
Has Check Marks inside the manual.

PRICE.....\$7.00 USA + Shipping

#####

#14 Original Manual for the Heathkit AM2 Reflected Power Meter. Printed in
USA 1961. 16 Page Manual with Photo of Unit inside front Cover. Covers
Assembly, Parts, Schematic, Pictorials etc. Also has a Fold out. Condition
is VG+ Real Clean, with Minor writing inside Manual.

PRICE.....\$7.00 USA + Shipping

#####

Message-ID: <38FE6E9C.368AEF0A@uswest.net>

Date: Wed, 19 Apr 2000 20:42:36 -0600

From: James Hanlon <knjhanlon@uswest.net>

MIME-Version: 1.0

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Praises to the SX-28

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

A. B. Bonds wrote "

Message-ID: <38FE70ED.AEE7F875@uswest.net>

Date: Wed, 19 Apr 2000 20:52:29 -0600

From: James Hanlon <knjhanlon@uswest.net>

MIME-Version: 1.0

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Praises to the SX-28

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

A. B. Bonds wrote of his new SX-28, "This is a very
nice set, only pre-war unit (aside from S27 line) I've seen
that has
credible sensitivity above 20 mHz. Down side is that it

still is quite
deaf below 1 mHz, and there seems to be nothing to
blame...."

I still like my HRO for sensitivity over the entire range.
As Bill Orr said, it's "two RF stages giving the receiver
the sensitivity equal to the ears of an Iroquois Indian
scouting party." (CQ, May 1975, The Wonderful HRO Receiver)

Jim, W8KGI

Message-ID: <00c501bfaab2\$c5ba8860\$f81d29d8@tne1tcds>
From: "Richard Brunner" <rbrunner@gis.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Hallicrafters S-38 with Transmitter
Date: Thu, 20 Apr 2000 06:24:30 -0400
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hue wrote:
"Say, didn't hallicrafters have a No-vice
type rig, SR-18 maybe, basically an S-38
with the audio output tube also working as
a low power xtal controlled transmitter?"

From memory, and from Moore's book, that is the SR-75, made in 1951. Its
an S-38B with 10 Watt crystal controlled oscillator built in. At \$89.95 it
was not popular, and disappeared in about one year. It looks just like an
S-38B. If you find one they are quite rare, and worth far more than I would
pay, to collectors. I have never seen the schematic, so don't know whether
the audio output tube doubles as crystal oscillator.

Richard Brunner, AA1P, rbrunner@gis.net

Message-ID: <38FEE7C4.E2063CD3@wb1cmg.mv.com>
Date: Thu, 20 Apr 2000 07:19:32 -0400
From: "David M. Upton" <david@wb1cmg.mv.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Commercial tickets
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Can someone reply off the list to let me know if there is any upgrade path from my 1st class 'Phone ticket with broadcast and radar endorsements or do I have to start all over again with the GPO? Earned with pride at 16 or thereabouts.....Now worthless? I didn't keep up with it when the rules changed due to college and career. I thought that it would be good for life and even had the license endorsed for service.

David M. Upton, WB1CMG

To: Old Tube Radios <boatanchors@theporch.com>
Date: Thu, 20 Apr 2000 07:51:19 -0700
Subject: Elusive Lulus logged.
Message-ID: <20000420.075159.-349655.0.MNHopkins@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
From: Michael N HoN Hopkins <mnhopkins@juno.com>

If you bill it, they willl come.

That's the lesson of my recently lauding the rarish (250 made) L'il LuLu 6M TX and the super rare (5) companion RX.

Right after I offered a packet of LuLu views and reviews for \$1 and an SASE, W8FIX sent some jpegs and, archeologically, I found a picture of a PAIR or LuLus in use.

Herbert Holtje, W2TQS of Tenafly, N.J., is shown on page 21 of Editors and Engineers "The Fun of Ham Radio, 1st ed, 1st printing, 1965, with both LuLus in a station with an HQ-150, the inevitable Ranger and a Heath SWR meter. I cannot tell if the meter is the one that misstates the SWR.

But there is a HB TX for 2M or 220 with 6360s and a Vibroplex, too. If a LuLu TX performed like most 6M stuff on CW, and he used a Vibroplex, it must have sounded like FSK.

I'll add this art from Robert Hertzberg, W2DJJ's little book to my send out and continue to welcome any news of LuLus, Tecraft, or anything about Six Meters before SSB and 2M FM killed it.

A fun fact: The L'il LuLu TX has a small, CB looking edge meter on the top left while the RX has a larger square meter. The TX has three toggles below the meter, but the RX has only two.

Those rules should stand for the commercials. I have not seen a club

built LuLu TX, but some sharp eyed Yankee reminds me Whippany Labs, Ed Ladd's company, shared Whippany NEW JERSEY with Bell Labs -- it was not in New York. My only defense for the mistake is that Barry Goldwater wanted to saw that part off the country off. It sounded fine to me. We knew Teddy Kennedy could swim.

ab5L -- Michael N. Hopkins MNHopkins@JUNO.com

Box 226841, Dallas, TX 75222

Archiving receive converters and the Golden Age of 6M -- 1956-58

Message-ID: <20000420135611.8174.qmail@mellon.com>

From: Merz Donald S <merz.ds@mellon.com>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Key on eBay

Date: Thu, 20 Apr 2000 09:52:05 -0400

MIME-Version: 1.0

Content-Type: text/plain

I am not a key collector, and this is not my eBay listing, but just out of curiosity those interested should look at this key on eBay. The guy has no decent keywords in the listing that would tell anyone it's a Morse code key. His listing title is BRONZ/ BRASS TELETYPE DASH DOT. Why is it at a slant like that?

73, Don

Message-Id: <v03007801b524c166a277@[132.235.46.157]>

Mime-Version: 1.0

Content-Type: text/enriched; charset="us-ascii"

Date: Thu, 20 Apr 2000 12:35:05 -0400

To: Old Tube Radios <boatanchors@theporch.com>

From: Richard Post <post@ouvaxa.cats.ohiou.edu>

Subject: Re: Commercial tickets

The FCC offered those of us who held the First Class Commercial the option of a wallet-sized or larger wall-paper GROL license. I have the wall-paper certificate. Unlike the First class, the GROL is lifetime, does not need to be renewed every 5 years. If you had a valid First at the time of the switch, you now have the GROL. Since they offered the GROL to both First and Second class ticket holders, the GROL is a lower Q replacement.

I took the First recently enough to use a LED pocket calculator. Handy for calculating tube circuit parameter and antenna phase angle questions. Not many questions on squalid state.

Rich<fontfamily><param>Courier</param> - KB8TAD

<http://oak.cats.ohiou.edu/~postr/bapix/>

</fontfamily>

any upgrade

>path from my 1st class 'Phone ticket with broadcast and radar

>endorsements or do I have to start all over again with the GR0?

I thought that it would be good for life

>David M. Upton, WB1CMG

Message-Id: <3.0.32.20000420121041.007f5990@mail.wt.net>

Date: Thu, 20 Apr 2000 12:17:50 -0500

To: Old Tube Radios <boatanchors@theporch.com>

From: "Benjamin D. Hall" <kd5byb@WT.NET>

Subject: EF Johnson 122-101 socket?

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Greetings all...

In sorting through my junk bins lately I came across an EF Johnson 122-101 socket. Can anyone tell me what tube it is for? I put a couple of pictures on my webpage in case the Johnson number isn't enough...

<http://web.wt.net/~kd5byb/socket1.JPG>

<http://web.wt.net/~kd5byb/socket2.JPG>

Anyone need it for a project?

thanks,
ben

Benjamin D. Hall, KD5BYB, Engine and radio collector / operator.

Located in Houston, Texas, USA.
e-mail: kd5byb@WT.net, web: <http://web.wt.net/~kd5byb/>
"An ye harm none, do what thou wilt."

Message-ID: <38FF53B6.9A15542A@mediaone.net>
Date: Thu, 20 Apr 2000 15:00:06 -0400
From: Gary Schafer <gschafer@mediaone.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: EF Johnson 122-101 socket?
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

829B, 5894, 826, 3E29 and probably a few more.

73
Gary K4FMX

"Benjamin D. Hall" wrote:

> Greetings all...
>
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> socket. Can anyone tell me what tube it is for? I put a couple of
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> <http://web.wt.net/~kd5byb/socket1.JPG>
> <http://web.wt.net/~kd5byb/socket2.JPG>
>
> Anyone need it for a project?
>
> thanks,
> ben
>
> ---
> Benjamin D. Hall, KD5BYB, Engine and radio collector / operator.
> Located in Houston, Texas, USA.
> e-mail: kd5byb@WT.net, web: <http://web.wt.net/~kd5byb/>
> "An ye harm none, do what thou wilt."

From: W0EOM@aol.com
Message-ID: <cc.37f6d4c.2630b0a6@aol.com>
Date: Thu, 20 Apr 2000 15:12:38 EDT
Subject: Re: EF Johnson 122-101 socket?
To: Old Tube Radios <boatanchors@theporch.com>

CC: boatanchors@theporch.com
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Ben -according to my 1958 WRL catalog, that socket is for an 829.

Will Santa Clara, CA

Message-ID: <008d01bfab0a\$00c9a1a0\$220b1ed1@default>
From: "Spencer Petri" <wa5jci@flash.net>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Old Tube Radios" <boatanchors@theporch.com>
Subject: Re: EF Johnson 122-101 socket?
Date: Thu, 20 Apr 2000 15:50:01 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

If it's just a flat ceramic socket without a metal "shell" it will also fit an 8877.

es 73 de Pete WA5JCI EM21

6 meter VUCC # 361

2 meter VUCC # 346

----- Original Message -----

From: Gary Schafer <gschafer@mediaone.net>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: Old Tube Radios <boatanchors@theporch.com>
Sent: Thursday, April 20, 2000 2:00 PM
Subject: Re: EF Johnson 122-101 socket?

> 829B, 5894, 826, 3E29 and probably a few more.

>

> 73

> Gary K4FMX

>

> "Benjamin D. Hall" wrote:

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> > <http://web.wt.net/~kd5byb/socket2.JPG>
> >
> > Anyone need it for a project?
> >
> > thanks,
> > ben
> >
> > ---
> > Benjamin D. Hall, KD5BYB, Engine and radio collector / operator.
> > Located in Houston, Texas, USA.
> > e-mail: kd5byb@WT.net, web: <http://web.wt.net/~kd5byb/>
> > "An ye harm none, do what thou wilt."
>

Message-ID: <20000420210627.32961.qmail@hotmail.com>
From: "russ dworakowski" <wb3fau@hotmail.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Praises to the SX-28
Date: Thu, 20 Apr 2000 17:06:27 EDT
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

The SX-28a is not a bad rx. But Bill ORR is right-
the HROs blow Hallicrafters out of the water.

>From: James Hanlon <knjhanlon@uswest.net>
>Reply-To: knjhanlon@uswest.net
>To: Old Tube Radios <boatanchors@theporch.com>
>Subject: Praises to the SX-28
>Date: Wed, 19 Apr 2000 20:52:29 -0600
>
>A. B. Bonds wrote of his new SX-28, "This is a very
>nice set, only pre-war unit (aside from S27 line) I've seen
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>credible sensitivity above 20 mHz. Down side is that it
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>deaf below 1 mHz, and there seems to be nothing to
>blame...."
>
>I still like my HRO for sensitivity over the entire range.
>As Bill Orr said, it's "two RF stages giving the receiver
>the sensitivity equal to the ears of an Iroquois Indian
>scouting party." (CQ, May 1975, The Wonderful HRO Receiver)

>

>Jim, W8KGI

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>

Date: Thu, 20 Apr 2000 17:18:13 -0400 (EDT)
Message-Id: <200004202118.RAA28138@ecunet.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: POWER TRANSFORMER QUESTIONS
From: JOHN.SEHRING@ecunet.org

I've got a Halli HA-6 6m transverter but no ps for it. The matching Halli P-26 ps is scarce & expensive. I paid \$50 for the HA-6 & the ps seems quite a bit more. So, I'm thinking about rolling my own.

The P-26 provides 2 outputs for xmit: 700 VDC @ 150 mA for plates of 5894 dual tetrode final & 260 VDC @ 125 mA for PA screens & rest of transverter.

It has a dual-tapped (high & low voltage taps plus a center tap) HV secondary xfmr & uses ss diodes. The plate supply uses a swinging choke (8/27 H) input followed by 20 uF of filtering. The other uses a pi-net, 40 uF 1st filter, 9 H smoothing choke, & 40 uF final filter.

Now this ct seems strange to me. My experience is to see ss rectifiers and capacitor filters only, no chokes.

I wanted to see what other mfrs did with this. The Drake AC-3 ps (for powering T-4* SSB xmtr) uses ss rectifiers (in a full wave doubler for both plate & screen supplies--it does draw a lot of current at turn on, I can see & hear it) & only caps for filtering.

I don't know what the Collins 516F-2 (for 32S-* xmtr) does.

I found a statement from QST Tech Corres (9/94) which said that capacitor input filters require power xfmr's with "low" leakage reactances. Said that cap input ps filters are the norm with amateur ps's these days. Can get as good as 4% quiescent to full-load regulation with low leakage reactance xfmr's.

Sez xfmr's with "high" leakage reactance require choke input filters. Use of cap input filters with such xfmr's gives poor regulation, about 35% even with lots of caps (120 uF). Choke inputs needed.

A clue is statement that low leakage reactance xfmr's should use a soft-start ct to limit turn-on in-rush current. Bill Orr says (in Radio Hdbk) low secondary winding resistances and low leakage reactance between

pri & secondary windings give high inrush current and that larger xfmr's tend to be in that category.

Most of my refs are packed away for moving so can't see what they say on this. "Radiotron" chap 5 talks about leakage "inductance"--is this the extent of the leakage reactance, i.e. only inductance?

I want to be able to use cap input filters as I don't have many chokes around & can't necessarily id those which are of the swinging(!) variety. My xfmr selection is exclusively from old stuff, up to 40-60 years old taken from old ps's. But reasonable regulation is necessary for an SSB device's power supply so...

I'm thinking of using a big Motorola ps. It's for 100 watt output VHF FM xmtrs. Gives 670 V @ 260 mA continuous for plates; 270 V @ 70 mA & 200 V @ 20 mA continuous for other uses are derived from 670 V line via series resistance. Uses 3B28's in full wave ct.

But...the matching FM xmtr draws continuous steady current, not like SSB so only static regulation is worried about not dynamic. However, with a 300 watt commercial grade xfmr in SSB service you can uprate it by about a factor of 2-3X according to one of Orr's graphs which shows xfmr weight vs. Comm, CW, typ. IVS & max. IVS ratings.

I could get more than 670 V from Mot. ps by using ss diodes instead of 3B28's. But it's no good to get screen supply via series R, the regulation would be lousy. So another xfmr would be required for the screen supply.

Orr describes (& Drake AC-3 uses) voltage doubler ps's for SSB use even though they intrinsically have poorer regulation. He presents a lot of data & graphs on getting that kind of ps right. Show dyn. regulation of 6 to 16% which is fine, IMO.

So my question to the collective intellect of this multitude of filamentarians is, what quantitatively is meant by low & high amounts of xfmr leakage reactance? How is it measured, directly, indirectly? By looking at inrush current or regulation or what?

Thanx!

-John Sehring (Thu, Apr 20, 2000, Custer SD) UCC WB0EQ

Date: Thu, 20 Apr 2000 16:52:58 -0500 (EST)
From: "Roberta J. Barmore" <rbarmore@indy.net>
To: Old Tube Radios <boatanchors@theporch.com>
cc: BA <boatanchors@sco.theporch.com>
Subject: SX-28 LF hearing...

Message-ID: <Pine.SUN.4.10.10004201646420.10463-1000000@indy3>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi!

I don't happen to have an SX-28 manual handy, but--

Pretty sure Halli switches OUT the first RF amp on the .55 to 1.6 mc band! (And *why* do they do such an awful thing? 'Cos most every town has a station carryin' "Jack Armstrong" and suchlike; and why else *would* a person listen to the freqs between 550 and 1600 kc except for that sort of entertainment?) ("I dunno, Kingfish, why *would* a person listen to..." Oh, never mind--"Goodnight, Gracie!").

...Not 100% on that but pretty sure the last time I dug through the books on mine I noticed they sneaked that in. Well, maybe it saves the front end tube when WLW has the 500kW rig running?

;)
73,
--Bobbi

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End of BOATANCHORS Digest 2872
